

INTEGRATED RE-COMBINER FOR ELECTROOSMOTIC
PUMPS USING POROUS FRITS

Abstract of the Disclosure

Trenches may be formed in the upper surfaces of a pair of wafers. Each trench may be coated with a catalyst that is capable of removing oxygen or hydrogen from a fluid used
5 for cooling in a system making use of the electroosmotic effect for pumping. Channels may be formed to communicate fluid to and from the trench coated with the catalyst. The substrates may be combined in face-to-face abutment, for example using copper-to-copper bonding to form a re-
10 combiner.